

SC33W1150D2

OUTPOON POWER RATING

Engine Speed	Type of	Engine	Power
rpm	Operation	kW	Ps
1500	Prime Power	782	1063
	Standby Power	860	1170

- -. The engine performance is as per GB/T2820.
- -. Ratings are based on GB/T1147.1.
- ---Prime power is available for an unlimited number of hours per year in a variable load application. The permissible average power output over 24 hours of operation shall not exceed 80% of the prime power rating.
- ---Standby power is available in the event of a utility power outage or under test conditions for up to 200 hours of operation per year. The permissible average power output over 24 hours of operation shall not exceed 80% of the standby power rating.

© SPECIFICATIONS

© FUEL CONSUMPTION

O Engine Model	SC33W1150D2	O Power	lit/hr
O Engine Type	line, 4 strokes, water-cooled	25%	50.9
	Turbo charged	50%	92.6
	air-to-air intercooled	75%	138.1
		, • • •	
O Combustion type	Direct injection	100%	186.4
	•		
O Cylinder Type	Wet liner	110%	207.8
0 N 1 0 1 1			
O Number of cylinders	6		
0 D 1			
O Bore × stroke	180(7.09) × 215(8.47) mm(in.)		
O Displacement			
O Displacement	32.8(2001) lit.(in3)		
O Compression ratio			
- Compression ratio	15:1		
O Firing order			
5	1-5-3-6-2-4	◎ FUEL SYSTEM	
O Injection timing	A20DED G	O Injection pump	I 1 ' 1' ((D11))
	22°BTDC		Longkou in-line "P11" type
O Dry weight	A	O Governor	E14
	Approx. 3400kg (7495.7 lb)		Electric type
O Dimension	2307×1371×1983 mm	O Feed pump	Mechanical type
	2307^1371^1903 Hilli		wicenamear type
$(L\times W\times H)$	(90.9×54.0×78.1 in.)	O Injection nozzle	Multi hole type
	(50.5 5 110 70.1 111.)		Main hole type
O Rotation	Counter clockwise viewed from	O Opening pressure	290kg/cm2 (4125 psi)
	Flywheel	O Fuel filter	Full flow, cartridge type

Fly wheel housingFly wheel	SAE NO.0 SAE NO.18	O Used fuel	Diesel fuel oil
⊚ MECHANISM		© LUBRICATION SYSTEM	
O Type	Over head valve	O Lub. Method	Fully forced pressure feed type
O Number of valve	Intake 1, exhaust 1 per cylinder	O Oil pump	Gear type driven by crankshaft
O Valve lashes at cold	Intake 0.4mm (0.0158 in.)	O Oil filter	Full flow, cartridge type
	Exhaust 0.45mm (0.0177 in.)	O Oil pan capacity	High level 75 L (19.8 gal.) Low level 50 L (13.2 gal.)
	Opening Close	O Angularity limit	Front down 25 deg. Front up 35 deg.
O Intake valve	58° BTDC 48° ABDC		Side to side 35 deg.
O Exhaust valve	54° BBDC 48° ATDC	O Lub. Oil	Refer to Operation Manual
© COOLING SYSTEM		© ENGINEERING DATA	
O Cooling method	Fresh water forced circulation	O Water flow	1150L/min @1,500 rpm
O Water capacity	56L (14.78 gal.)	O Heat rejection to coolant	78.6kcal/sec @1,500 rpm
(engine only)		O Heat rejection to CAC	49.1kcal/sec @1,500 rpm
O Pressure system	Max. 0.5 kg/cm2 (7.11 psi)	• Air flow	2×40.2m3/min @1,500 rpm
O Water pump	Centrifugal type driven by belt	O Exhaust gas flow	194.1m3/min @1,500 rpm
O Water pump Capacity	1150L(303.6gal.)/min	O Exhaust gas temp.	690 °C @1,500 rpm
	at 1,500 rpm (engine)	O Max. permissible	
O Thermostat	Wax-pellet type Opening temp. 77°C Full open temp. 90°C	restrictions Intake system	3 kPa initial 6 kPa final
• Cooling fan	Blower type,iron	Exhaust system	11 kPa max.
	1371 mm diameter, 8 blades	O Max. permissible altitude	2,000 m
• Cooling air flow	$20.82 \text{ m}^3/\text{s}$	O Fan power	25 kW

© ELECTRICAL SYSTEM

◆ CONVERSION TABLE

O Charging generator 28V×55A

 $in. = mm \times 0.0394$

 $lb/ft = N.m \times 0.737$

O Voltage regulator

Built-in type IC regulator

 $PS = kW \times 1.3596$

U.S. gal = lit. \times 0.264

O Starting motor

24V×11kW

 $psi = kg/cm2 \times 14.2233$

kW = 0.2388 kcal/s

O Battery Voltage

24V

 $in^3 = lit. \times 61.02$

 $1b/PS.h = g/kW.h \times 0.00162$

O Battery Capacity

200 AH

 $hp = PS \times 0.98635$

 $cfm = m3/min \times 35.336$

 $lb = kg \times 2.20462$



